

M. Schmitt - 09/26/02

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L15 ANSWER 1 OF 1 WPIX (C) 2002 THOMSON DERWENT
ACCESSION NUMBER: 1990-266072 [35] WPIX Full-text
DOC. NO. CPI: C1990-115202
TITLE: Production of plastic open-cell foam e.g. polyethylene - by
breaking of closed cells useful for sound absorbing
material.
DERWENT CLASS: A17 A32 A88 J01
PATENT ASSIGNEE(S): (SANS) SANWA KAKO CO
COUNTRY COUNT: 1
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN	IPC
JP--02188233	A	19900724	(199035)	*			<--

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
JP--02188233	A	1989JP-0008337	19890117

PRIORITY APPLN. INFO: 1989JP-0008337 19890117

INT. PATENT CLASSIF.: B29C-067-20; C08J-009-38

BASIC ABSTRACT:

JP 02188233 A UPAB: 19930928

Production involves pressurising a plastic closed-cell foam with a gas or a liquid, keeping the pressurised state, and then releasing the pressure whereby the cell walls are broken to give an open-cell structure.

The pressurising is pref. conducted above room temperature

As the resin for the plastic foam, high pressure process PE, linear low density PE, ethylene - vinylacetate copolymer etc. can be used. The closed-cell foam may be produced by using a crosslinking agent and a foaming agent. Water, N2 gas, etc. is supplied under pressure into a high pressure vessel in which a plastic closed-cell foam is placed. The pressure is pref. 5-300 atms. The pressurising temperature is pref. 50-200 deg.C.

USE/ADVANTAGE - For plastic joint materials, filters, and sound absorbing materials. The reduction of the thickness of the foam is prevented. This method gives plastic foams with an open-cell ratio of 100%.

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FILE SEGMENT: CPI

FIELD AVAILABILITY: AB

MANUAL CODES: CPI: A11-B06D; A12-S04A1; A12-S04B; J01-H

JP02188233

MANUFACTURE OF PLASTIC OPEN CELL BODY

SANWA KAKO KK

Inventor(s): ;MAKIMOTO SHIYOUICHI

Application No. 01008337 , Filed 19890117 , Published 19900724

Abstract:

PURPOSE: To damage thinner bubble film of resin than a lattice to communicate bubbles by leaving plastic closed cell body under pressure of gas or liquid.

CONSTITUTION: Composition made of ethylene-vinyl acetate copolymer, azodicarbonamide, zinc white, dicumyl peroxide is kneaded, filled in a mold, heated under pressure, and a molded form is then removed. The molded form is introduced into a mold, heated, cooled, and then removed to obtain closed cell body having an extremely thin film. Open cell ratio its skin is sliced is 60%. Hexahedral porous body in which the skin is removed from the cell body and a cut hexahedron cell body is filled in a high pressure vessel, water is added in a full level, and the vessel is then sealed. Water at 25°C is press- filled in the high pressure vessel by a hydraulic unit, pressurized to 10atms, and the pressure is equilibrated for 5min. Then, the pressure is simultaneously released to a normal pressure. The size of the removed porous body is not altered from that before the treatment, and its open cell ratio is 100%.

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